FUNCTIONAL INDEPENDANCE MATHEMATICS
EXTENDED BENCHMARKS
GRADE 11

Grade 11 Extended Benchmarks	Level Assessed Classroom/LEA/ISD and/or State
PATTERNS AND RELATIONSHIPS	
Topic 1: Patterns	
F.11.EB01 Create, describe, and extend simple number patterns.	Classroom/LEA/ISD and State
F.11.EB02 Explain how to find the next number in a simple repeating pattern.	Classroom/LEA/ISD and State
F.11.EB03 Identify, describe and extend patterns found in daily life, such as calendars, schedules, etc.	Classroom/LEA/ISD and State
GEOMETRY AND MEASUREMENT	
Topic 1: Measure and use units	
G.11.EB01 Select and use standard tools for measurement of distance, time, weight, volume and temperature.	Classroom/LEA/ISD and State
G.11.EB02 Select appropriate units of measure for distance, time, weight, area, volume and temperature (degrees Fahrenheit, °F, only) for a given context.	Classroom/LEA/ISD and State
G.11.EB03 Measure and compare integer temperatures in degrees (degrees Fahrenheit, °F, only).	Classroom/LEA/ISD and State
G.11.EB04 Read gauges and meters, e.g. speedometers.	Classroom/LEA/ISD and State

October 17, 2005

FUNCTIONAL INDEPENDANCE MATHEMATICS
EXTENDED BENCHMARKS
GRADE 11

Grade 11 Extended Benchmarks	Level Assessed Classroom/LEA/ISD and/or State
G.11.EB05 Measure lengths to the nearest eighth-inch using a ruler. Round measures to the nearest quarter-inch.	Classroom/LEA/ISD and State
G.11.EB06 Measure area by counting squares on a grid for rectangular shapes.	Classroom/LEA/ISD
G.11.EB07 Measure volume by counting blocks that fit into a rectangular prism.	Classroom/LEA/ISD
G.11.EB08 Measure the distance around a rectangle (perimeter).	Classroom/LEA/ISD and State
G.11.EB09 Convert measurements of length within a given system.	Classroom/LEA/ISD and State
G.11.EB10 Tell time to the nearest 5 minutes. Address A.M. and P.M.	Classroom/LEA/ISD and State
G.11.EB11 Know equivalent calendar units.	Classroom/LEA/ISD and State
G.11.EB12 Use a calendar and use equivalent calendar units.	Classroom/LEA/ISD and State
G.11.EB13 Read and interpret schedules.	Classroom/LEA/ISD and State
G.11.EB14 Solve one- and two-step word problems using addition and subtraction of length, time, weight, area, volume or temperature.	Classroom/LEA/ISD and State

October 17, 2005

FUNCTIONAL INDEPENDANCE MATHEMATICS
EXTENDED BENCHMARKS
GRADE 11

Grade 11 Extended Benchmarks	Level Assessed Classroom/LEA/ISD and/or State
Topic 2: Money	
G.11.EB15 Recognize equivalent sets of coins and bills.	Classroom/LEA/ISD and State
G.11.EB16 Tell the amount of money in dollars and cents up to and including $100. Use the symbols $ and ¢ and decimal notation.	Classroom/LEA/ISD and State
G.11.EB17 Add and subtract money in dollars and cents, and combinations of dollars and cents, up to $1000.	Classroom/LEA/ISD and State
G.11.EB18 Round money to the nearest dollar, ten dollars or hundred dollars.	Classroom/LEA/ISD and State
Topic 3: Use maps and grids	
G.11.EB19 Find and name locations using simple coordinate systems such as maps and first quadrant grids.	Classroom/LEA/ISD and State
G.11.EB20 Read, interpret and use maps and grids with legends, landmarks and city blocks. Follow and give directions such as north, south, east and west and directional turns such as left and right.	Classroom/LEA/ISD and State

October 17, 2005

FUNCTIONAL INDEPENDANCE MATHEMATICS
EXTENDED BENCHMARKS
GRADE 11

Grade 11 Extended Benchmarks	Level Assessed Classroom/LEA/ISD and/or State
DATA ANALYSIS	
Topic 1: Explore Data	
D.11.EB01 Read data from charts, tables, bar graphs, circle graphs, tallies, pictographs and line graphs.	Classroom/LEA/ISD and State
D.11.EB02 Construct tables, graphs and charts from given data.	Classroom/LEA/ISD
D.11.EB03 Draw, explain and justify predictions and conclusions from data presented in tables, graphs and charts.	Classroom/LEA/ISD and State
D.11.EB04 Describe the shape of data using informal language, e.g. increasing, decreasing.	Classroom/LEA/ISD and State
D.11.EB05 Solve problems using data presented in tables, charts, bar graphs, circle graphs, tallies, pictographs, and line graphs, including graphs and charts with more than one set of data.	Classroom/LEA/ISD and State
D.11.EB06 Collect and explore data to make daily living decisions.	Classroom/LEA/ISD and State
D.11.EB07 Identify what data are needed to answer a question or solve a problem.	Classroom/LEA/ISD and State
D.11.EB08 Critically question the sources, collection techniques and inferences of data presented by others.	Classroom/LEA/ISD

October 17, 2005

FUNCTIONAL INDEPENDANCE MATHEMATICS
EXTENDED BENCHMARKS
GRADE 11

Grade 11 Extended Benchmarks	Level Assessed Classroom/LEA/ISD and/or State
NUMBER SENSE AND NUMERATION	
Topic 1: Count, write and order whole numbers	
N.11.EB01 Read, write and count using whole numbers to 100,000 in numerals and words.	Classroom/LEA/ISD and State
N.11.EB02 Explore and recognize equivalent representations for whole numbers to 100,000.	Classroom/LEA/ISD and State
N.11.EB03 Express numbers to 100,000 using place value.	Classroom/LEA/ISD and State
N.11.EB04 Order numbers to 100,000; compare whole numbers using phrases such as same as, more than, greater than, fewer than, and use = symbol.	Classroom/LEA/ISD and State
N.11.EB05 Round whole numbers to the nearest one, ten, hundred or thousand.	Classroom/LEA/ISD and State
Topic 2: Compute with whole numbers	
N.11.EB06 Add, subtract, multiply and divide whole numbers fluently.	Classroom/LEA/ISD and State
N.11.EB07 Apply estimation in solving problems.	Classroom/LEA/ISD and State

October 17, 2005

GRADE 11

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N.11.EB08 Solve simple open sentences.	Classroom/LEA/ISD and State
N.11.EB09 Select appropriate numbers in order to solve problems.	Classroom/LEA/ISD and State
Topic 3: Fractions, decimals and percentages	
N.11.EB10 Understand percentages as parts out of 100, use % notation, and express a part of a whole as a percentage.	Classroom/LEA/ISD and State
N.11.EB11 Convert between percentages, decimals and fractions. E.g. 1/2 = 0.5 = 50%.	Classroom/LEA/ISD and State
N.11.EB12 Solve word problems involving percentages in such contexts as sales, taxes and tips.	Classroom/LEA/ISD and State
N.11.EB13 Recognize, name, represent and write fractions with denominators of 100 or less.	Classroom/LEA/ISD and State
N.11.EB14 Compare and order fractions, including improper fractions and mixed numbers.	Classroom/LEA/ISD and State
N.11.EB15 Add and subtract two fractions with like denominators.	Classroom/LEA/ISD and State

October 17, 2005

FUNCTIONAL INDEPENDANCE MATHEMATICS
EXTENDED BENCHMARKS
GRADE 11

Grade 11 Extended Benchmarks	Level Assessed Classroom/LEA/ISD and/or State
N.11.EB16 Compare and order decimal fractions in relation to money.	Classroom/LEA/ISD and State
N.11.EB17 Round money to the nearest dollar or ten dollars.	Classroom/LEA/ISD and State
N.11.EB18 Add, subtract, multiply and divide decimal fractions in relation to money in applied situations.	Classroom/LEA/ISD and State
Topic 4: Problem solving and estimation	
N.11.EB19 Apply estimation in solving problems involving addition, subtraction, multiplication or division.	Classroom/LEA/ISD and State
N.11.EB20 Select appropriate numbers and operations in order to solve problems, write number sentences and solve.	Classroom/LEA/ISD and State
N.11.EB21 Solve applied problems involving the four basic arithmetic operations for whole numbers, fractions and decimals.	Classroom/LEA/ISD and State

October 17, 2005

FUNCTIONAL INDEPENDANCE MATHEMATICS
EXTENDED BENCHMARKS
GRADE 11

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NUMBERICAL AND ALGEBRAIC OPERATIONS AND ANALYTICAL THINKING	
Topic 1: Expressions and equations	
A.11.EB01 Solve applied problems involving rates, including speed.	Classroom/LEA/ISD and State
A.11.EB02 Identify the unknown quantity in an applied problem.	Classroom/LEA/ISD and State
A.11.EB03 Represent information given in words using algebraic expressions and equations.	Classroom/LEA/ISD and State

October 17, 2005